

(1) GENERATOR NAME UMETCO MINERALS CORPORATION
ADDRESS 137 - 47th Street
CITY Niagara Falls STATE New York
CONTACT G E Walck PHONE (716) 278-3361

(2) consigned to
CHEM NUCLEAR SYSTEMS, INC
P O BOX 726 OSBORN ROAD
BARNWELL S C 29812

BARNWELL WASTE MANAGEMENT FACILITY
Operated by CHEM-NUCLEAR SYSTEMS, INC
P O Box 726, Barnwell, South Carolina 29812
(803) 259 1781
RADIOACTIVE SHIPMENT MANIFEST FORM

(3) USE THIS NUMBER ON ALL CONTINUATION PAGES VOLUME ALLOCATION NO PAGE 1
0984-212A OF 2

(4) Tri-
CARRIER State ADDRESS Joplin, Missouri 64801
TELEPHONE 417-624-3131 SHIPPING DATE 9/5/84
SHIPMENT TYPE Van SHIPMENT SURFACE EXPOSURE .032 mR/hr
SHIPMENT NO 615-3006 LINER SERIAL NO —
DRIVER SIGNATURE [Signature] DATE 9-5-84

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n o s —Radioactive Material	UN2918
8	41207	Radioactive Material, low specific activity, n o s —Radioactive Material	UN2912
		Radioactive Material, n o s —Radioactive Material	UN2982
		Radioactive Material, limited quantity, n o s —Radioactive Material	UN2910
		Radioactive Material, special form, n o s —Radioactive Material	UN2974
		Radioactive Material, instruments and articles—Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS							
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (10CFR 20.311)					SOURCE (Pounds)
		<input type="checkbox"/> Curies <input checked="" type="checkbox"/> Millicuries					
		ALL ISOTOPIES	TRITIUM	C 14	Tc 99	I 129	
520	8	054	NP	NP	NP	NP	0.8

(7) TOTAL SNM	
ISOTOPE	GRAMS
U 233	N/A
U 235	
TOTAL	↓

(8) TOTAL PALLET VOLUME (CU FT) N/A

(9) WASTE DESCRIPTION Contaminated Soil
Misc. Debris (10) PHYSICAL FORM/
SOLIDIFICATION AGENT Solid

(11) CHEMICAL FORM AND NAME AND % OF CHELATING AGENT(S) Metal Oxides

(12) WASTE FORM CLASS ☒ A ☐ B ☐ C

(13) (☒) Yes (☐) No THIS VEHICLE IS CONIGNED EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

(15) Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipment of low level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive Material License No 097 as amended and the Nuclear Regulatory Commission's License No 12 13536 01 as amended and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment and further certification is made that the inspection revealed no items of non compliance with all applicable laws rules and regulations

(14) IMPORTANT This is to certify that the above named materials are properly classified described packaged marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Signature [Signature]
Company Umetco Minerals Corp. Date 9/5/84

Date 9/5/84 By [Signature]
Title and Organization Construction Superintendent - Umetco Minerals Corp.
Telephone No (716) 278-3361

- ☐ This material meets all license requirements
☐ This material was disposed of in accordance with license
☐ Discrepancy

SEP 14 1984

Date 9/13/84
Authorized Signature [Signature] Title [Signature]

UCCCNHT00002012

USE THIS NUMBER ON VOLUME ALLOCATION NO
ALL CONTINUATION PAGES

PAGE 2 OF 2

[illegible]

Form No CNS 201
(9-83)

CUSTOMER'S COPY

UCCNHT0002013

Tri-State Motor Transit Company

Carrier's No 657967

Name of Carrier

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading

AT Marietta, Ohio
Niagara Falls, NY

September 5, 19 84 From

UMETCO MINERALS CORPORATION
METALS-DIVISION
UNION CARBIDE CORPORATION

For use via carrier truck under the exclusive/sole use shipments/movements

the property described below, in apparent good order except as noted (contents and condition of contents of packages unknown) marked consigned and destined as indicated below which said carrier (the word carrier being understood through out this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or a rail water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns

Consigned to CHEM NUCLEAR SYSTEMS, INC.
UCCM (HARRISON) BARNWELL MANAGEMENT FACILITIES

SHIPPER'S ORDER NO

CUSTOMER'S ORDER NO

Destination Uranium Barnwell (Osborn Road) State Colorado S. Carolina County Montrose Barnwell

Route

Delivering Carrier Tri-State Motor Transit Car or Vehicle Initials 8136 No 448122 Seal 262506

No Packages	Kind of Package, Description of Articles, Special marks, and Exceptions	*Weight (Sub to correction)	†Class or Rate	Check Column
8	Radioactive Materials, LSA, n o s (520 cu. ft.)			
	Radioactive Material UN2912			
	UN-Natural			
	Uranium/Thorium Residues (From Chemical Processing)			
	0.016 Max Curies per Package Less than one (1) pound source			
	material - solid, metal oxide, contaminated soil,			
	building rubble, wood and plant equipment.			
This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation				
	Signed <u>G.E. Walck</u>			
Vehicle assigned for sole use of consignor. Do not load other freight on the vehicle. do not transfer in route and do not break the seal on truck				
Carrier hereby acknowledges that prior to or at the time this shipment was offered for transportation the shipper provided or affixed, according to applicable regulations the required placards or orange panels (including prescribed identification numbers) for each hazardous material named hereon				
	Signed <u>Gene Lloyd</u>			

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

(Signature of consignor)

If charges are to be prepaid, write or stamp here: To Be Prepaid

Third Party
PREPAID (See Below)

Received \$
to apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per
(The signature here acknowledges only the amount prepaid)

Charges advanced

\$

This shipment is correctly described

Correct weight is _____ lbs
Subject to verification by the

*L.G. Evans
Umetco Minerals Corp.

P.O. Box 97
Niagara Falls NY 142

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

METALS-DIVISION
UNION CARBIDE CORPORATION UMETCO MINERALS CORPORATION

Shipper

Agent

Per

Per

Permanent postoffice
address of shipper
UC 326-34

G.E. Walck

UCCNHT0002014

Form RHA-PNC
(5/80)SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Radioactive Waste Shipment Prior Notification and Manifest Form

See Reverse Side for Instructions

1. Name and Address of Shipper Umetco Minerals Corporation 137 47th Street Niagara Falls, NY 14302		2. Person Responsible for Radioactive Waste Shipment (a) Name G.E. Walck (b) Title Construction Superintendent (c) Telephone No (716) 278-3361	
3. Radioactive Waste Transport Permit No 0211-31-84-X		4. Shipment Identification No. 0984-212A	
5. Location from which waste will be shipped Same as (1) above		6. Name and Address of Consignee Chem-Nuclear Systems, Inc. P.O. Box 726 Barnwell, South Carolina 29812	
7. Scheduled Date of Departure of Shipment September 5, 1984		8. Estimated Date of Arrival of Shipment September 7, 1984	
9. Carrier Tri-State Motor Transit	10. Type of Transport Vehicle Closed Van	11. Trailer No and Owner (if available) 448122	
12. Routes shipment will follow in State of South Carolina (Be Specific) I-20, I-26, US-321, S.C. 3 and S.C. 64			

Manifest Summary

13. Type Container or Cask Wood Boxes	14. Container Spec CFR 49 173.392 (c)	15. Total No of Containers 8						
16. Waste Description, Physical and Chemical Form Contaminated Soil, Metal Oxides, Bldg. Rubble, Wood and Plant Hardware	17. Prominent Radionuclides Uranium (Nat.) .0028 Thorium (Nat.) .004							
18. Total Curies (mCi) .054	19. Transport Group III	20. Total Cubic Feet 520						
21. Waste Classification								
<table border="0"> <tr> <td>UN2912</td> <td> <input checked="" type="checkbox"/> Radioactive LSA <input type="checkbox"/> Radioactive LSA greater than Type A quantities </td> <td> <input type="checkbox"/> Bulk LSA <input type="checkbox"/> Limited quantities and radioactive devices </td> <td> <input type="checkbox"/> Normal Form <input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity </td> <td> <input type="checkbox"/> Special Form <input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity </td> <td> <input type="checkbox"/> Fissile <input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III </td> </tr> </table>			UN2912	<input checked="" type="checkbox"/> Radioactive LSA <input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Bulk LSA <input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Normal Form <input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity	<input type="checkbox"/> Special Form <input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity	<input type="checkbox"/> Fissile <input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III
UN2912	<input checked="" type="checkbox"/> Radioactive LSA <input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Bulk LSA <input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Normal Form <input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity	<input type="checkbox"/> Special Form <input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity	<input type="checkbox"/> Fissile <input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III			

CERTIFICATION

I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the information provided herein is complete and correct to the best of my knowledge, and that the shipper has complied with all the provisions as required by Act No 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act

Date 8-28-84C.E. Walck - Construction Supt.
Typed Name and Title of Agent of Shipper

G.E. Walck
Signature (G.E. Walck)

CONSIGNEE ACKNOWLEDGEMENT

This acknowledges to the South Carolina Department of Health and Environmental Control that the above-described radioactive waste shipment was received

Date of Delivery _____

Signature of Consignee or authorized Agent

Typed or Printed Name and Title

DHEC 802
(5/80)Original: S. Carolina
Copy. Chem-Nuclear

(Copies of this form may be reproduced locally as needed)

UCCNHT0002015

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Radioactive Waste Shipment Certification Form

General Instructions and Information: This is a two part form to be used by shippers and carriers of radioactive waste. The certifications contained herein satisfy the requirements of Section 13-7-150, of Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act. This certification along with a copy of the prior notification form shall accompany each shipment of radioactive waste into and within the State of South Carolina. The shipper is to complete his portion of the form and present it to the carrier as part of the shipping documents. Upon receipt, the carrier shall complete his portion of the form. Upon delivery of the shipment to the consignee, a copy of this certification form, and a copy of the Prior Notification and Manifest form with the consignee acknowledgement, shall be returned to the Department.

Part I: Shipper's Certificate of Compliance


1. Name of Shipper and Address: Umetco Minerals Corporation 137 - 47th Street Niagara Falls, NY 14302 Telephone No. (716) 278-3361	2. Shipment Identification No. 0984-212A
	3. Transport Permit No. 0211-31-84-X

In compliance with Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the above-named shipper has complied with all provisions of Act No. 499 of 1980, and all applicable laws and administrative rules and regulations, both State and Federal, regarding the packaging, transportation, storage, disposal and delivery of such wastes. I further certify that this shipment of radioactive waste has been inspected within 48 hours of the time of departure and that no items of non-compliance with applicable laws, rules or regulations were found.

Date September 5, 1984

G.E. Walck, Construction Superintendent

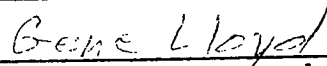

Typed Name and Title of Agent of Shipper


Signature

Part II: Carrier's Certification

1. Name of Carrier and Address: Tri-State Motor Transit Company P.O. Box 113 Joplin, Missouri 64801 Telephone No. (800) 641-7591	2. Shipment Identification No. 0984-212A
	3. Transport Trailer No. 448122
4. Scheduled Date of Departure of Shipment: September 5, 1984	5. Estimated Date of Arrival of Shipment: September 7, 1984

Certification is hereby made to the South Carolina Department of Health and Environmental Control that: (a) the shipper has provided the carrier with a copy of the shipment manifest, the certificate of compliance, and the routing instructions; (b) the shipment of radioactive waste has been properly placarded for transport according to applicable U.S. Department of Transportation Regulations; (c) all shipping papers originated or reproduced by the carrier have been properly executed; (d) the transport vehicle has been inspected according to applicable State and Federal regulations within the prescribed intervals and that all safety and operational components are in good working order and meet the requirements of regulations; (e) all drivers who will operate the vehicle within the State of South Carolina are qualified to transport hazardous materials as specified by applicable U.S. Department of Transportation regulations; (f) the Department shall be immediately notified of any variance, occurring after departure, from the shipper's notification of primary routes in South Carolina and estimated date of arrival; (g) all applicable laws and administrative rules and regulations, both State and Federal, regarding the transportation of radioactive wastes will be complied with.

Date September 5, 1984
Typed or Printed Name and Title
Signature

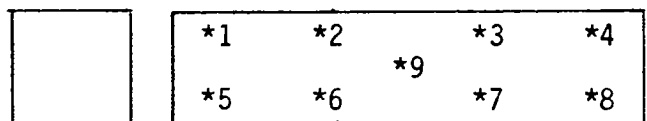
UMETCO MINERALS CORPORATION
NIAGARA FALLS, NEW YORK

DATE 9-5-84

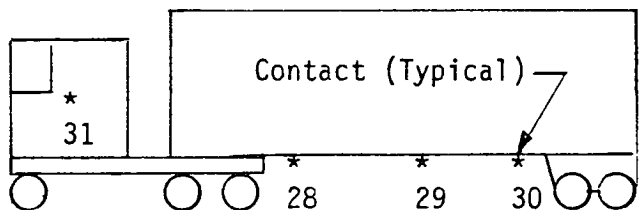
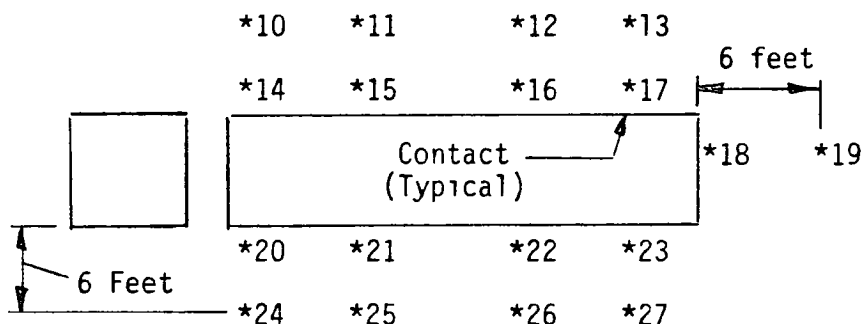
TRACTOR NO. 8163

SHIPMENT NO. 615-3006

TRAILER NO. 448122



TRUCK FLOOR SURVEY (UNLOADED)



TRUCK EXTERIOR SURVEY (LOADED)

NO.	δ	β
1	.007	50
2	.007	—
3	.008	—
4	.009	50
5	.007	60
6	.008	—
7	.008	—
8	.009	60
9	—	70
10	.013	—
11	.013	—
12	.016	—
13	.015	—
14	.016	—
15	.013	—
16	.020	—
17	.020	—
18	.015	—
19	.013	—
20	.015	—
21	.016	—
22	.013	—
23	.016	—
24	.010	—
25	.011	—
26	.010	—
27	.013	—
28	.030	—
29	.010	—
30	.032	—
31	.005	—

LEGEND:

* Location of Reading

δ = mR/hr Ludlum Model 19 (S/N 22534)

β = dpm/100 cm² Ludlum Model 15 (S/N 28886)
w/Ludlum Model 44-9 Probe (S/N 12708) - Eff. 42%

S.E. Wald
(Survey performed by)

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-16-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-138 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 5372

RADIATION SURVEY (Total)

CONTACT .025 mR/hr.

3 FEET .012 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29515

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-16-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-139 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 5040

RADIATION SURVEY (Total)

CONTACT .034 mR/hr.

3 FEET .015 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29514

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-16-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-141 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 5554

RADIATION SURVEY (Total)

CONTACT .036 mR/hr.

3 FEET .013 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29407

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-16-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-142 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 54 72

RADIATION SURVEY (Total)

CONTACT .024 mR/hr.

3 FEET .013 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29408

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-16-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84 - 143 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 5266

RADIATION SURVEY (Total)

CONTACT .032 mR/hr.

3 FEET .013 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A - 29409

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

Umetco Minerals Corporation
Niagara Falls, New York

Date 8 - 23 - 84

CONTAINER SURVEY

BOX CONTROL NO. UM 84 - 144 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 45 83

RADIATION SURVEY (Total)

CONTACT . 036 mR/hr.

3 FEET . 014 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A - 29410

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

UCCNHT0002023

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-23-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-145 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 5164

RADIATION SURVEY (Total)

CONTACT .032 mR/hr.

3 FEET .015 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A-29412

0 dpm/100cm² \propto

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

Umetco Minerals Corporation
Niagara Falls, New York

Date 8 - 23-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84 - 146 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 4756

RADIATION SURVEY (Total)

CONTACT .030 mR/hr.

3 FEET .014 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A 29411

0 dpm/100cm² \propto

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

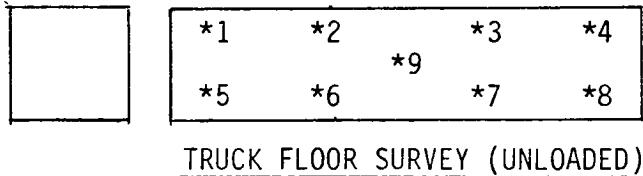
UMETCO MINERALS CORPORATION
NIAGARA FALLS, NEW YORK

DATE 9-5-84

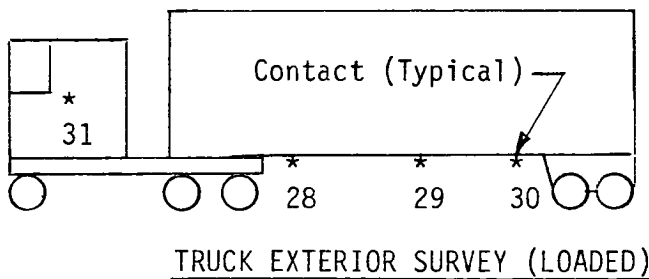
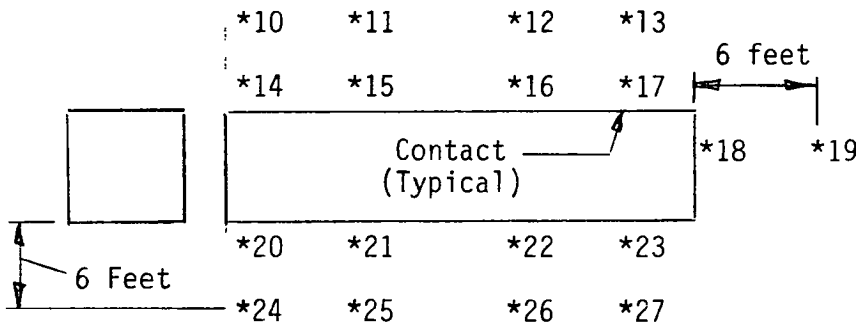
TRACTOR NO. 8163

SHIPMENT NO. 615-3006

TRAILER NO. 448122



NO.	δ	B
1	.007	50
2	.007	—
3	.008	—
4	.009	50
5	.007	60
6	.008	—
7	.008	—
8	.009	60
9	—	70
10	.013	—
11	.013	—
12	.016	—
13	.015	—
14	.016	—
15	.013	—
16	.020	—
17	.020	—
18	.015	—
19	.013	—
20	.015	—
21	.016	—
22	.013	—
23	.016	—
24	.010	—
25	.011	—
26	.010	—
27	.013	—
28	.030	—
29	.010	—
30	.032	—
31	.005	—



LEGEND:

* Location of Reading

δ = mR/hr Ludlum Model 19 (S/N 22534)

B = dpm/100 cm² Ludlum Model 15 (S/N 28886)
w/Ludlum Model 44-9 Probe (S/N 12708) - Eff. 42%

S.E. Walker
(Survey performed by)

UCCNHT0002026

(1) GENERATOR NAME Umetco Minerals Corporation

ADDRESS 137 - 47th Street

CITY Niagara Falls STATE New York

CONTACT G.E. Walck PHONE (716)278-3361

(2) consigned to
CHEM NUCLEAR SYSTEMS, INC
P O BOX 726, OSBORN ROAD
BARNWELL, S.C. 29812

(3) USE THIS NUMBER ON
ALL CONTINUATION PAGES

VOLUME ALLOCATION NO
0984-213A

PAGE 1
OF 2

BARNWELL WASTE MANAGEMENT FACILITY

Operated by CHEM-NUCLEAR SYSTEMS, INC
P O Box 726, Barnwell, South Carolina 29812
(803) 259-1781

RADIOACTIVE SHIPMENT MANIFEST FORM

(4) Tri-
CARRIER State ADDRESS Joplin, Missouri 64801
TELEPHONE 417-624-3131 SHIPPING DATE 9/10/84
SHIPMENT TYPE Van SHIPMENT SURFACE EXPOSURE 1.044 mR/hr
SHIPMENT NO 615-3007 LINER SERIAL NO —
DRIVER SIGNATURE Richard Wilson DATE 9-10-84

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n o s —Radioactive Material	UN2918
<u>8</u>	<u>39956</u>	Radioactive Material, low specific activity, n o s —Radioactive Material	UN2912
		Radioactive Material, n o s —Radioactive Material	UN2982
		Radioactive Material, limited quantity, n o s —Radioactive Material	UN2910
		Radioactive Material, special form, n o s —Radioactive Material	UN2974
		Radioactive Material, instruments and articles—Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS							
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (10CFR 20.311)					SOURCE (Pounds)
		ALL ISOTOPEs	TRITIUM	C 14	Tc 99	I 129	
<u>520</u>	<u>8</u>	<u>.054</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>0.8</u>

(7) TOTAL SNM	
ISOTOPE	GRAMS
<u>U 233</u>	<u>N/A</u>
<u>U-235</u>	<u>↓</u>
<u>TOTAL</u>	<u>↓</u>

(8) TOTAL PALLET
VOLUME (CU FT) N/A

(9) WASTE DESCRIPTION Contaminated Soil- Misc. Debris
(10) PHYSICAL FORM/
SOLIDIFICATION AGENT Solid

(11) CHEMICAL FORM AND
NAME AND % OF CHELATING AGENT(S) Metal Oxides

(12) WASTE FORM CLASS
☒ A ☐ B ☐ C

(13) ☒ Yes () No THIS VEHICLE IS CONIGNED EXCLUSIVE USE. LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

(14) IMPORTANT "This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Signature S. E. Walck
Company Umetco Minerals Corp. Date 9/10/84

(15) "Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipment of low level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive Material License No 097 as amended, and the Nuclear Regulatory Commission's License No 12 13536 01 as amended, and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment, and further certification is made that the inspection revealed no items of non compliance with all applicable laws, rules and regulations "

Date 9/10/84 By S. E. Walck
Title and Organization Construction Superintendent - Umetco Minerals Corp.
Telephone No (716) 278-3361

- ☒ This material meets all license requirements
☐ This material was disposed of in accordance with license
☐ Discrepancy

Date 9/17/84
Authorized Signature [Signature] Title [Signature]

UCCNHT0002027

Operated by CHEM-NUCLEAR SYSTEMS, INC

USE THIS NUMBER ON VOLUME ALLOCATION NO
ALL CONTINUATION PAGES

CONTINUATION SHEET

PAGE TOTALS

CUSTOMER'S COPY

UCCNHT0002028

(1) GENERATOR NAME Umetco Minerals Corporation
ADDRESS 137 - 47th Street
CITY Niagara Falls STATE New York
CONTACT G. E. Walicki PHONE (716) 278-3361

(2) **consigned to**
CHEM NUCLEAR SYSTEMS, INC
P O BOX 726, OSBORN ROAD
BARNWELL, S.C. 29812

BARNWELL WASTE MANAGEMENT FACILITY

Operated by CHEM-NUCLEAR SYSTEMS, INC
P O Box 726, Barnwell, South Carolina 29812
(803) 259-1781

RADIOACTIVE SHIPMENT MANIFEST FORM

(3) USE THIS NUMBER ON
ALL CONTINUATION PAGES

VOLUME ALLOCATION NO

PAGE 1
OF 2

0984-212A

(4) CARRIER Tri-State ADDRESS Joplin, Missouri 64801
TELEPHONE 417-624-5151 SHIPPING DATE 9/10/84
SHIPMENT TYPE Van SHIPMENT SURFACE EXPOSURE .004 mR/hr
SHIPMENT NO 615-3007 LINER SERIAL NO
DRIVER SIGNATURE Richard Williams DATE 9-10-84

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n o s —Radioactive Material	UN2918
<u>6</u>	<u>39956</u>	Radioactive Material, low specific activity, n o s —Radioactive Material	UN2912
		Radioactive Material, n o s —Radioactive Material	UN2982
		Radioactive Material, limited quantity, n o s —Radioactive Material	UN2910
		Radioactive Material, special form, n o s —Radioactive Material	UN2974
		Radioactive Material, instruments and articles—Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS							SOURCE (Pounds)
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (10CFR 20.311) <input type="checkbox"/> Curies <input checked="" type="checkbox"/> Millicuries					
		ALL ISOTOPES	TRITIUM	C 14	Tc 99	I 129	
520	8	054	NP	NP	NP	NP	0.9

(7) TOTAL SNM	
ISOTOPE	GRAMS
U-233	<u>N/A</u>
U-235	<u>N/A</u>
TOTAL	<u>↓</u>

(9) WASTE DESCRIPTION Contaminated Soil
Misc. Debris (10) PHYSICAL FORM/
SOLIDIFICATION AGENT Solid

(11) CHEMICAL FORM AND
NAME AND % OF CHELATING AGENT(S) Metal Oxides

(12) WASTE FORM CLASS
☐ A ☐ B ☒ C

(13) ☒ Yes () No THIS VEHICLE IS CONSIGNEE EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

(14) IMPORTANT "This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

(15) "Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipment of low-level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive Material License No 097 as amended, and the Nuclear Regulatory Commission's License No 12 13536 01 as amended, and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment, and further certification is made that the inspection revealed no items of non compliance with all applicable laws, rules and regulations "

Date 9/10/84 By G. E. Walicki
Title and Organization Construction Superintendent - Umetco Minerals Corp.
Telephone No (716) 278-3361

CNSI USE ONLY

- ☐ This material meets all license requirements
☐ This material was disposed of in accordance with license
☐ Discrepancy _____

TRIPLICATE COPY

Form No CNS-201
(9-83)

SEE INSTRUCTIONS ON REVERSE SIDE
FOR FILLING OUT THIS FORM

Arrival Date _____ Arrival Survey No _____
Date/Time Buried _____ H P Initial _____
Trench No _____ Location Code _____
Waste Class Code _____
Personnel Exposure _____

Date _____

Authorized Signature _____ Title _____

UCCNHT0002029

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Radioactive Waste Shipment Certification Form

General Instructions and Information: This is a two part form to be used by shippers and carriers of radioactive waste. The certifications contained herein satisfy the requirements of Section 13-7-150, of Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act. This certification along with a copy of the prior notification form shall accompany each shipment of radioactive waste into and within the State of South Carolina. The shipper is to complete his portion of the form and present it to the carrier as part of the shipping documents. Upon receipt, the carrier shall complete his portion of the form. Upon delivery of the shipment to the consignee, a copy of this certification form, and a copy of the Prior Notification and Manifest form with the consignee acknowledgement, shall be returned to the Department.

Part I: Shipper's Certificate of Compliance

1. Name of Shipper and Address: Umetco Minerals Corporation 137 - 47th Street Niagara Falls, NY 14302 Telephone No. (716) 278-3361	2. Shipment Identification No. 0984-213A
	3. Transport Permit No. 0211-31-84-X

In compliance with Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the above-named shipper has complied with all provisions of Act No. 499 of 1980, and all applicable laws and administrative rules and regulations, both State and Federal, regarding the packaging, transportation, storage, disposal and delivery of such wastes. I further certify that this shipment of radioactive waste has been inspected within 48 hours of the time of departure and that no items of non-compliance with applicable laws, rules or regulations were found.

Date September 10, 1984

G. E. Walck, Construction Superintendent
Typed Name and Title of Agent of Shipper

G. E. Walck
Signature

Part II: Carrier's Certification

1. Name of Carrier and Address: Tri-State Motor Transit Company P. O. Box 113 Joplin, Missouri 64801 Telephone No. (800) 641-7591	2. Shipment Identification No. 0984-213A
	3. Transport Trailer No. 448122
4. Scheduled Date of Departure of Shipment: September 10, 1984	5. Estimated Date of Arrival of Shipment September 13, 1984

Certification is hereby made to the South Carolina Department of Health and Environmental Control that: (a) the shipper has provided the carrier with a copy of the shipment manifest, the certificate of compliance, and the routing instructions; (b) the shipment of radioactive waste has been properly placarded for transport according to applicable U.S. Department of Transportation Regulations; (c) all shipping papers originated or reproduced by the carrier have been properly executed; (d) the transport vehicle has been inspected according to applicable State and Federal regulations within the prescribed intervals and that all safety and operational components are in good working order and meet the requirements of regulations; (e) all drivers who will operate the vehicle within the State of South Carolina are qualified to transport hazardous materials as specified by applicable U.S. Department of Transportation regulations; (f) the Department shall be immediately notified of any variance, occurring after departure, from the shipper's notification of primary routes in South Carolina and estimated date of arrival; (g) all applicable laws and administrative rules and regulations, both State and Federal, regarding the transportation of radioactive wastes will be complied with.

Date September 10, 1984

Richard Wilson
Typed or Printed Name and Title

Richard Wilson
Signature

Tri-State Motor Transit Company

Carrier's No 657968

Name of Carrier

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading.

AT Marietta, Ohio

Sept. 10, 19 84 From

UMETCO MINERALS CORPORATION
METALS DIVISION
UNION CARBIDE CORPORATION

Niagara Falls, NY For use via carrier truck under the exclusive/sole use shipments/movements

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as indicated below which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official Southern, Western and Illinois Freight Classifications in effect on the date hereof if this is a rail or a rail water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns

Consigned to ~~UCC METALS DIVISION~~ **CHEM NUCLEAR SYSTEMS, INC.** **BARNWELL MANAGEMENT FACILITIES**

Destination ~~Atavah~~ **Barnwell (Osborn Road)** State ~~Colorado~~ **S. Carolina** County ~~Adams~~ **Barnwell**

Route

Delivering Carrier **Tri-State Motor Transit** Car or Vehicle Initials **1313** No **440424** Seal No **226512**
226509

No Packages	Kind of Package, Description of Articles, Special marks, and Exceptions	*Weight (Sub to correction)	*Class or Rate	Check Column
8	Radioactive Materials I.S.A. n o s (520 cu. ft.) Radioactive Materials UN-2912 X 02 Natural X X Uranium/Thorium Residues (From Chemical Processing) X 0016 Max 2 Curies per Package Less than one (1) pound source material - solid, metal oxide, contaminated soil, building rubble, wood and plant equipment.			
	This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation			
	Signed <i>E. Walck</i>			
	Vehicle assigned for sole use of consignor. Do not load other freight on the vehicle do not transfer in route and do not break the seal on truck			
	Carrier hereby acknowledges that prior to or at the time this shipment was offered for transportation the shipper provided or affixed according to applicable regulations, the required placards or orange panels (including prescribed identification numbers) for each hazardous material named hereon			
	Signed <i>Richard J. Williams</i>			

Subject to Section 7 of Conditions of applicable bill of lading if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

(Signature of consignor)

if charges are to be prepaid write of stamp here To be Prepaid

Third Party
PREPAID (See Below)

Received \$
to apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per
(The signature here acknowledges only the amount prepaid)

Charges advanced

\$
This shipment is correctly described

Correct weight is lbs
Subject to verification by the

***L.G. Evans**
Umetco Minerals Corp.

P.O. Box 97
Niagara Falls, NY 14302

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per

~~UCC METALS DIVISION~~ **UMETCO MINERALS CORPORATION**

Per *E. Walck* Shipper Agent

Permanent postoffice address of shipper UC 326-34 **G.E. Walck**

UCCNHT0002031

Union Carbide Corporation

LINDE DIVISION • GAS PRODUCTS COMPLEX
4501 ROYAL AVENUE NIAGARA FALLS, N.Y. 14303

WEIGHT TICKET

1313

08:16°C9/10/84
0000 0000
22 2 22
08055 28640

Union Carbide Corporation
LINDE DIVISION • GAS PRODUCTS COMPLEX
4501 ROYAL AVENUE NIAGARA FALLS, N.Y. 14303
WEIGHT TICKET

1313

11:44A 09/10/84
0010 1313
22 2 22
SCALE 1 10300.0
SCALE 2 33700.0
SCALE 3 25020.0
GROSS 069020.0

000 000 000

UCCNHT0002033

(1) GENERATOR NAME Umetco Minerals Corporation
ADDRESS 137 - 47th Street

CITY Niagara Falls STATE New York
CONTACT G E Walck PHONE (716) 278-3361

(2) consigned to
CHEM NUCLEAR SYSTEMS, INC
P O BOX 726 OSHORN ROAD
BARNWELL SC 29812

BARNWELL WASTE MANAGEMENT FACILITY
Operated by CHEM NUCLEAR SYSTEMS, INC
P O Box 726, Barnwell, South Carolina 29812
(803) 259 1781
RADIOACTIVE SHIPMENT MANIFEST FORM

(3) USE THIS NUMBER ON
ALL CONTINUATION PAGES

VOLUME ALLOCATION NO
0984-213A

PAGE 1
OF 2

(4) Carrier-
CARRIER State ADDRESS Ioplin, Missouri 64801
TELEPHONE 417-624-3131 SHIPPING DATE 9/10/84
SHIPMENT TYPE Van SHIPMENT SURFACE EXPOSURE 0.044 mR/hr
SHIPMENT NO 615-3007 LINER SERIAL NO —
DRIVER SIGNATURE Richard Wilson DATE 9-10-84

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
8	39956	Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n.o.s. — Radioactive Material	UN2918
		Radioactive Material, low specific activity, n.o.s. — Radioactive Material	UN2912
		Radioactive Material, n.o.s. — Radioactive Material	UN2982
		Radioactive Material, limited quantity, n.o.s. — Radioactive Material	UN2910
		Radioactive Material, special form, n.o.s. — Radioactive Material	UN2974
		Radioactive Material, instruments and articles — Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS		ACTIVITY (EXCEPT FOR 054)					SOURCE (Pounds)
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ALL ISOTOPLS	TRITIUM	C 14	Tc 99	I 129	
520	8	054	NP	NP	NP	NP	0.8

(7) TOTAL SNM	
ISOTOPE	GRAMS
U 233	N/A
U 235	
TOTAL	

(8) TOTAL PALLET
VOLUME (CU. FT.) N/A

(9) WASTE DESCRIPTION Contaminated Soil
Misc Debris (10) PHYSICAL FORM/
SOLIDIFICATION AGENT Solid

(11) CHEMICAL FORM AND
NAME AND % OF CHELATING AGENT(S) Metal Oxides

(12) WASTE FORM CLASS
☒ A ☐ B ☐ C

(13) ☒ Yes () No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

(15) Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipment of low level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive Material License No. 097 as amended and the Nuclear Regulatory Commission's License No. 12 13536 01 as amended and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment and further certification is made that the inspection revealed no items of non compliance with all applicable laws, rules and regulations

(14) IMPORTANT This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Signature S. E. Walck
Company Umetco Minerals Corp Date 9/10/84

Date 9/10/84 By S. E. Walck
Title and Organization Construction Superintendent - Umetco Minerals Corp
Telephone No. (716) 278-3361

CNSI USE ONLY

- ☐ This material meets all license requirements
☐ This material was disposed of in accordance with license
☐ Discrepancy

DISPOSAL SITE COPY

Form No CNS 201
(9-83)

SEE INSTRUCTIONS ON REVERSE SIDE
FOR FILLING OUT THIS FORM

Arrival Date _____ Arrival Survey No _____
Date/Time Buried _____ H. P. Initial _____
Trench No _____ Location Code _____
Waste Class. Code _____
Personnel Exposure _____

Date _____
Authorized Signature _____ Title _____

Attn: Sybil Horton - Volume Allocation No. 0984-213A

UCCCNHT00002034

GENERATOR NAME Umetco Minerals Corp

PAU { 2 } or 2

PAU { 2 } or 2

PAGE TOTALS

DISPOSAL SITE COPY

Attn. Sybil Horton - Volume Allocation No. 0984-214A

UCCNHT0002035

GENERAL OR NAME Umetco Minerals Corp

PAGE 2 OF 2

PAGE 2 OF 2

Form No CNS 201
(9-83)

DISPOSAL SITE COPY

UCCNHT0002036

Operated by CHEM NUCLEAR SYSTEMS, INC

PAGE 2 OF 2

CONTINUATION SHEET

PAGE TOTALS

(9-83)

Attn: Sybil Horton

UCCNHT0002037

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL
Radioactive Waste Shipment Prior Notification and Manifest Form

See Reverse Side for Instructions

1. Name and Address of Shipper Umetco Minerals Corporation 137 47th Street Niagara Falls, NY 14302		2. Person Responsible for Radioactive Waste Shipment (a) Name G.E. Walck (b) Title Construction Superintendent (c) Telephone No (716) 278-3361	
3. Radioactive Waste Transport Permit No. 0211-31-84-X		4. Shipment Identification No. 0984-213A	
5. Location from which waste will be shipped Same as (1) above		6. Name and Address of Consignee Chem-Nuclear Systems, Inc. P.O. Box 726 Barnwell, South Carolina 29812	
7. Scheduled Date of Departure of Shipment September 10, 1984		8. Estimated Date of Arrival of Shipment September 13, 1984	
9. Carrier Tri-State Motor Transit	10. Type of Transport Vehicle Closed Van	11. Trailer No and Owner (if available)	
12. Routes shipment will follow in State of South Carolina (Be Specific)			

Manifest Summary

13 Type Container or Cask Wood Boxes	14 Container Spec. CFR 49 173.392 (c)	15. Total No. of Containers 8
16 Waste Description, Physical and Chemical Form Contaminated Soil, Metal Oxides, Bldg. Rubble, Wood and Plant Hardware	17. Prominent Radionuclides Uranium (Nat.) .0028 Thorium (Nat.) .004	
18 Total Curies (mCi) .054	19 Transport Group III	20. Total Cubic Feet 520
21 Waste Classification		
<input checked="" type="checkbox"/> Radioactive LSA <input type="checkbox"/> Bulk LSA <input type="checkbox"/> Radioactive LSA <input type="checkbox"/> Limited quantities and radioactive devices <input type="checkbox"/> Type A quantities	Normal Form <input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity	Special Form <input type="checkbox"/> Type A quantity <input type="checkbox"/> Class I <input type="checkbox"/> Type B quantity <input type="checkbox"/> Class II <input type="checkbox"/> Large quantity <input type="checkbox"/> Class III

CERTIFICATION

I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the information provided herein is complete and correct to the best of my knowledge, and that the shipper has complied with all the provisions as required by Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act

Date _____

G.E. Walck - Construction Supt.
Typed Name and Title of Agent of Shipper

Signature (G.E. Walck)

CONSIGNEE ACKNOWLEDGEMENT

This acknowledges to the South Carolina Department of Health and Environmental Control that the above-described radioactive waste shipment was received.

Date of Delivery

Signature of Consignee or authorized Agent

Typed or Printed Name and Title

DHEC 802
(5/80)

Original. S. Carolina (5/80) (Copies of this form may be reproduced locally as needed)
Copy: Chem- Nuclear

UCCNHT0002038

Form RHA-PNC
(5/80)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL
Radioactive Waste Shipment Prior Notification and Manifest Form

See Reverse Side for Instructions

1. Name and Address of Shipper Umetco Minerals Corporation 137 47th Street Niagara Falls, NY 14302		2. Person Responsible for Radioactive Waste Shipment (a) Name G.E. Walck (b) Title Construction Superintendent (c) Telephone No. (716) 278-3361	
3 Radioactive Waste Transport Permit No 0211-31-84-X		4 Shipment Identification No. 0984-213A	
5. Location from which waste will be shipped Same as (1) above		6 Name and Address of Consignee Chem-Nuclear Systems, Inc. P.O. Box 726 Barnwell, South Carolina 29812	
7. Scheduled Date of Departure of Shipment September 10, 1984		8. Estimated Date of Arrival of Shipment September 13, 1984	
9 Carrier Tri-State Motor Transit	10 Type of Transport Vehicle Closed Van	11. Trailer No and Owner (if available)	

12. Routes shipment will follow in State of South Carolina (Be Specific)

I-20, I-26, US-321, S.C. 3 and S.C. 64

Manifest Summary

13 Type Container or Cask Wood Boxes	14 Container Spec CFR 49 173.392 (c)	15 Total No. of Containers 8
16 Waste Description, Physical and Chemical Form Contaminated Soil, Metal Oxides, Bldg. Rubble, Wood and Plant Hardware	17 Prominent Radionuclides Uranium (Nat.) .0028 Thorium (Nat.) .004	
18. Total Curies (mCi) .054	19 Transport Group III	20 Total Cubic Feet 520

UN2912


21 Waste Classification		Normal Form		Special Form		Fissile	
<input checked="" type="checkbox"/> Radioactive LSA	<input type="checkbox"/> Bulk LSA	<input type="checkbox"/> Type A quantity	<input type="checkbox"/> Type A quantity	<input type="checkbox"/> Type A quantity	<input type="checkbox"/> Type A quantity	<input type="checkbox"/> Class I	<input type="checkbox"/> Class I
<input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Class II	<input type="checkbox"/> Class II
		<input type="checkbox"/> Large quantity	<input type="checkbox"/> Large quantity	<input type="checkbox"/> Large quantity	<input type="checkbox"/> Large quantity	<input type="checkbox"/> Class III	<input type="checkbox"/> Class III

CERTIFICATION

I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the information provided herein is complete and correct to the best of my knowledge, and that the shipper has complied with all the provisions as required by Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act

Date _____

G.E. Walck - Construction Supt.
Typed Name and Title of Agent of Shipper


Signature (G.E. Walck)

CONSIGNEE ACKNOWLEDGEMENT

This acknowledges to the South Carolina Department of Health and Environmental Control that the above-described radioactive waste shipment was received

Date of Delivery _____

Signature of Consignee or authorized Agent _____

Typed or Printed Name and Title _____

DHEC 802
(5/80)

Original. S. Carolina
Copy: Chem- Nuclear

(Copies of this form may be reproduced locally as needed)

UCCNHT0002039

Form RHA-PNC
(5/80)SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL
Radioactive Waste Shipment Prior Notification and Manifest Form

See Reverse Side for Instructions

1 Name and Address of Shipper Umetco Minerals Corporation 137 47th Street Niagara Falls, NY 14302		2. Person Responsible for Radioactive Waste Shipment (a) Name G.E. Walck (b) Title Construction Superintendent (c) Telephone No. (716) 278-3361	
3. Radioactive Waste Transport Permit No 0211-31-84-X		4. Shipment Identification No. 0984-213A	
5. Location from which waste will be shipped Same as (1) above		6 Name and Address of Consignee Chem-Nuclear Systems, Inc. P.O. Box 726 Barnwell, South Carolina 29812	
7 Scheduled Date of Departure of Shipment September 10, 1984		8. Estimated Date of Arrival of Shipment September 13, 1984	
9 Carrier Tri-State Motor Transit	10 Type of Transport Vehicle Closed Van	11 Trailer No. and Owner (if available)	
12 Routes shipment will follow in State of South Carolina (Be Specific) I-20, I-26, US-321, S.C. 3 and S.C. 64			

Manifest Summary


13 Type Container or Cask Wood Boxes	14 Container Spec CFR 49 173.392 (c)	15 Total No. of Containers 8										
16 Waste Description, Physical and Chemical Form Contaminated Soil, Metal Oxides, Bldg. Rubble, Wood and Plant Hardware	17. Prominent Radionuclides Uranium (Nat.) .0028 Thorium (Nat.) .004											
18. Total Curies (mCi) .054	19 Transport Group III	20. Total Cubic Feet 520										
21 Waste Classification												
<table border="0"> <tr> <td><input checked="" type="checkbox"/> Radioactive LSA</td> <td><input type="checkbox"/> Bulk LSA</td> <td>Normal Form</td> <td>Special Form</td> <td>Fissile</td> </tr> <tr> <td><input type="checkbox"/> Radioactive LSA greater than Type A quantities</td> <td><input type="checkbox"/> Limited quantities and radioactive devices</td> <td><input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity</td> <td><input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity</td> <td><input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III</td> </tr> </table>			<input checked="" type="checkbox"/> Radioactive LSA	<input type="checkbox"/> Bulk LSA	Normal Form	Special Form	Fissile	<input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity	<input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III
<input checked="" type="checkbox"/> Radioactive LSA	<input type="checkbox"/> Bulk LSA	Normal Form	Special Form	Fissile								
<input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity	<input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III								

UN2912

CERTIFICATION

I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the information provided herein is complete and correct to the best of my knowledge, and that the shipper has complied with all the provisions as required by Act No 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act

Date _____

G.E. Walck - Construction Supt.
Typed Name and Title of Agent of Shipper

Signature (G.E. Walck)

CONSIGNEE ACKNOWLEDGEMENT

This acknowledges to the South Carolina Department of Health and Environmental Control that the above-described radioactive waste shipment was received

Date of Delivery _____

Signature of Consignee or authorized Agent

Typed or Printed Name and Title
DHEC 802
(5/80)
 Original: S. Carolina (Copies of this form may be reproduced locally as needed)
 Copy. Chem- Nuclear

UCCNHT0002040

Form RHA-PNC
(5/80)SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Radioactive Waste Shipment Prior Notification and Manifest Form

See Reverse Side for Instructions

1. Name and Address of Shipper Umetco Minerals Corporation 137 47th Street Niagara Falls, NY 14302		2. Person Responsible for Radioactive Waste Shipment (a) Name G.E. Walck (b) Title Construction Superintendent (c) Telephone No. (716) 278-3361	
3. Radioactive Waste Transport Permit No 0211-31-84-X		4. Shipment Identification No. 0984-213A	
5. Location from which waste will be shipped Same as (1) above		6. Name and Address of Consignee Chem-Nuclear Systems, Inc. P.O. Box 726 Barnwell, South Carolina 29812	
7. Scheduled Date of Departure of Shipment September 10, 1984		8. Estimated Date of Arrival of Shipment September 13, 1984	
9. Carrier Tri-State Motor Transit	10. Type of Transport Vehicle Closed Van	11. Trailer No. and Owner (if available)	
12. Routes shipment will follow in State of South Carolina (Be Specific) I-20, I-26, US-321, S.C. 3 and S.C. 64			

Manifest Summary

13. Type Container or Cask Wood Boxes	14. Container Spec CFR 49 173.392 (c)	15. Total No of Containers 8																				
16. Waste Description, Physical and Chemical Form Contaminated Soil, Metal Oxides, Bldg. Rubble, Wood and Plant Hardware	17. Prominent Radionuclides Uranium (Nat.) .0028 Thorium (Nat.) .004																					
18. Total Curies (mCi) .054	19. Transport Group III	20. Total Cubic Feet 520																				
21. Waste Classification																						
<table border="0"> <tr> <td><input checked="" type="checkbox"/> Radioactive LSA</td> <td><input type="checkbox"/> Bulk LSA</td> <td>Normal Form</td> <td>Special Form</td> <td>Fissile</td> </tr> <tr> <td><input type="checkbox"/> Radioactive LSA greater than Type A quantities</td> <td><input type="checkbox"/> Limited quantities and radioactive devices</td> <td><input type="checkbox"/> Type A quantity</td> <td><input type="checkbox"/> Type A quantity</td> <td><input type="checkbox"/> Class I</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> Type B quantity</td> <td><input type="checkbox"/> Type B quantity</td> <td><input type="checkbox"/> Class II</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> Large quantity</td> <td><input type="checkbox"/> Large quantity</td> <td><input type="checkbox"/> Class III</td> </tr> </table>			<input checked="" type="checkbox"/> Radioactive LSA	<input type="checkbox"/> Bulk LSA	Normal Form	Special Form	Fissile	<input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Type A quantity	<input type="checkbox"/> Type A quantity	<input type="checkbox"/> Class I			<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Class II			<input type="checkbox"/> Large quantity	<input type="checkbox"/> Large quantity	<input type="checkbox"/> Class III
<input checked="" type="checkbox"/> Radioactive LSA	<input type="checkbox"/> Bulk LSA	Normal Form	Special Form	Fissile																		
<input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Type A quantity	<input type="checkbox"/> Type A quantity	<input type="checkbox"/> Class I																		
		<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Type B quantity	<input type="checkbox"/> Class II																		
		<input type="checkbox"/> Large quantity	<input type="checkbox"/> Large quantity	<input type="checkbox"/> Class III																		

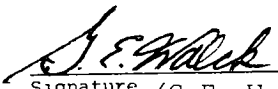
UN2912

CERTIFICATION

I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the information provided herein is complete and correct to the best of my knowledge, and that the shipper has complied with all the provisions as required by Act No 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act

Date _____

G.E. Walck - Construction Supt.
Typed Name and Title of Agent of Shipper


Signature (G.E. Walck)

CONSIGNEE ACKNOWLEDGEMENT

This acknowledges to the South Carolina Department of Health and Environmental Control that the above-described radioactive waste shipment was received

Date of Delivery _____

Signature of Consignee or authorized Agent

Typed or Printed Name and Title

DHEC 802
(5/80)

Original. S. Carolina (Copies of this form may be reproduced locally as needed)
Copy. Chem- Nuclear

UCCNHT0002041

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Radioactive Waste Shipment Certification Form

General Instructions and Information: This is a two part form to be used by shippers and carriers of radioactive waste. The certifications contained herein satisfy the requirements of Section 13-7-150, of Act No. 499 of 1980; the South Carolina Radioactive Waste Transportation and Disposal Act. This certification along with a copy of the prior notification form shall accompany each shipment of radioactive waste into and within the State of South Carolina. The shipper is to complete his portion of the form and present it to the carrier as part of the shipping documents. Upon receipt, the carrier shall complete his portion of the form. Upon delivery of the shipment to the consignee, a copy of this certification form, and a copy of the Prior Notification and Manifest form with the consignee acknowledgement, shall be returned to the Department.

Part I: Shipper's Certificate of Compliance

1. Name of Shipper and Address: Umetco Minerals Corporation 137 - 47th Street Niagara Falls, NY 14302 Telephone No. (716) 278-3361	2. Shipment Identification No. 0984-213A
	3. Transport Permit No. 0211-31-84-X

In compliance with Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the above-named shipper has complied with all provisions of Act No. 499 of 1980, and all applicable laws and administrative rules and regulations, both State and Federal, regarding the packaging, transportation, storage, disposal and delivery of such wastes. I further certify that this shipment of radioactive waste has been inspected within 48 hours of the time of departure and that no items of non-compliance with applicable laws, rules or regulations were found.

Date September 10, 1984

G. E. Walck, Construction Superintendent
Typed Name and Title of Agent of Shipper

Signature

Part II: Carrier's Certification

1. Name of Carrier and Address: Tri-State Motor Transit Company P. O. Box 113 Joplin, Missouri 64801 Telephone No. (800) 641-7591	2. Shipment Identification No. 0984-213A
	3. Transport Trailer No. 448122
4. Scheduled Date of Departure of Shipment: September 10, 1984	5. Estimated Date of Arrival of Shipment: September 13, 1984

Certification is hereby made to the South Carolina Department of Health and Environmental Control that: (a) the shipper has provided the carrier with a copy of the shipment manifest, the certificate of compliance, and the routing instructions; (b) the shipment of radioactive waste has been properly placarded for transport according to applicable U.S. Department of Transportation Regulations; (c) all shipping papers originated or reproduced by the carrier have been properly executed; (d) the transport vehicle has been inspected according to applicable State and Federal regulations within the prescribed intervals and that all safety and operational components are in good working order and meet the requirements of regulations; (e) all drivers who will operate the vehicle within the State of South Carolina are qualified to transport hazardous materials as specified by applicable U.S. Department of Transportation regulations; (f) the Department shall be immediately notified of any variance, occurring after departure, from the shipper's notification of primary routes in South Carolina and estimated date of arrival; (g) all applicable laws and administrative rules and regulations, both State and Federal, regarding the transportation of radioactive wastes will be complied with.

Date September 10, 1984

Typed or Printed Name and Title

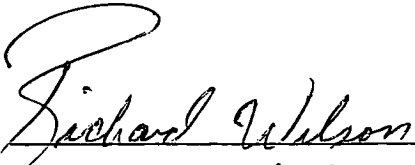
Signature

3.0 AT DESTINATION (Union Carbide Corporation, Uravan, Colorado)

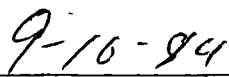
- 3.1 Give notification of arrival and receive guidance to unloading site.
- 3.2 Examine security seals and inspect outside of truck for damage or pilfering.
- 3.3 The shipment must be unloaded by Consignor from the transport vehicle in which originally loaded.
- 3.4 UCC or its representative will certify vehicles clean and available for Unrestricted Use and decontaminate if necessary.

4.0 PENALTY

- 4.1 Any deviation from these instructions or violations of State and Federal laws could result in carrier penalty.



Driver's Signature



Date